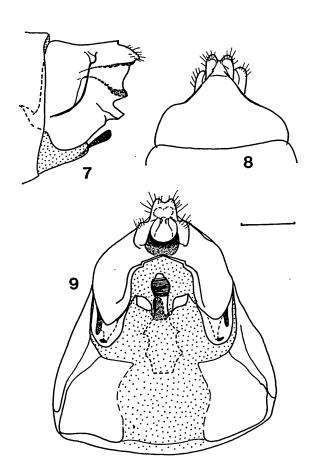
A.maritima are wide, inferior appendages are shorter than in A.ulmeri with ovoid (not elongated as in the last species) gonostyle, and the aedeagal structures resembles that of A.majuscula in the shape of the apex. Eversible lateral lobes of aedeagus in A.ulmeri are longer and have no basal spines. Parameres in A.maritima are obtuse apically and much longer than in A.ulmeri.



Apatania sarkandensis has long gonostyli, long acute preanal appendages, narrowed basal and apical parts of the large dorsal appendages (external branches of segment 9), and differs in the shape of segment 9 bearing the setose lateroposterior lobes. Eversible processes and spines on aedeagus are absent.

The species described here should be placed in the fimbriata-complex of the genus and represents a transition between mongolica- and malaisei-subgroups proposed by Schmid (1953). The subgroup malaisei is distinctly paraphyletic, as was supposed by Schmid (I.c.). A.ulmeri and related A.maritima and A.sarkandensis should be separated from the rest of malaisei-subgroup. Thus, we treat here the newly described species as a member of the <u>ulmeri-</u>subgroup in the subgenus Apatelia Wall. distinguished from others in long straight slender parameres, very long and strongly curved downward dorsal 'arms' - external branches of segment 9 in the male, and short anal tube and ventral part of the last abdominal segment in the female. The ulmeri-subgroup in related to A. mongolica Mart. and, probably, A.sinensis Mart.

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Legend to the figures.

Figs. 1-6. Male genitalia of Apatania maritima sp.n., holotype:

phallic Fig.1. view with protruded

Fig.2. Dorsal view, phallic structures omitted.
Fig.3. Apical part of the left external branch of segment 9, posterior view.

Fig.4. Aedeagus and parameres, dorsal view,

parameres are shifted to show the aedeagus. Fig.5. Aedeagus and parameres, lateral view.

Fig.6. Tip of aedeagus, dorsolateral view.
Scale: Figs.1-3 and 6: 0,3mm; 4 and 5: 0,5mm
Figs. 7-9. Female genitalia of Apatania maritima

sp.n., allotype: Fig.7. Lateral view.

Fig.8. Dorsal view. Fig.9. Ventral view.

Scale: 0,3 mm.



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SEngels @ cipvax.biolan.uni-koeln.de Present interests: development of larvae of Hydropsyche under the influence of several nitrite and nitrate concentrations. egg development swarming behaviour of development, swarming behaviour of Hydropsyche; identification of Trichoptera. - Other interests: larval behaviour, net-building of caddis larvae, distribution of Hydropsyche in Europe. - Wanted: papers on problems mentioned above, e-mail-adresses of scientists who are working with netspinning caddis; alcohol material of larvae of Hydropsyche from western Europe.